

OICE

#2

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/915,182

DATE: 08/02/2001

TIME: 10:47:18

Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\08022001\I915182.raw

ENTERED

3 <110> APPLICANT: Dehesh, Katayoon
 5 <120> TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING BETA KETOACYL-ACP SYNTHASE
 AND USES
 6 THEREOF
 8 <130> FILE REFERENCE: MTC 6796
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/915,182
 C--> 10 <141> CURRENT FILING DATE: 2001-07-25
 10 <150> PRIOR APPLICATION NUMBER: US 60/220,702
 11 <151> PRIOR FILING DATE: 2000-07-25
 13 <160> NUMBER OF SEQ ID NOS: 6
 15 <170> SOFTWARE: PatentIn version 3.0
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 1275
 19 <212> TYPE: DNA
 20 <213> ORGANISM: Synechocystis sp.
 22 <400> SEQUENCE: 1
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 25 atcaccceca tcggtataac tctccaagac tattggcaag gcttaatgga gggtcgtaac 120
 27 ggcattggcc ccattaccgc tttcgatgct agtgaccaag cctgocgttt tggaggggaa 180
 29 gtaaaggatt ttgatgctac ccagtttctt gaccgcaaag aagctaaacg gatggaccgg 240
 31 ttttgccatt ttgctgtttg tgccagtcaa caggcaatta acgatgctaa gttggtgatt 300
 33 aacgaactca atgccgatga aatcggggta ttgattggca cgggcatttg tggtttgaaa 360
 35 gtactggaag atcaacaaac cattctgttg gataagggtc ctagccgttg cagtcctttt 420
 37 atgatcccga tgatgatcgc caacatggcc tctgggttaa ccgccatcaa cttagggggc 480
 39 aagggtccca ataactgtac ggtgacggcc tgtgcggcgg gttccaatgc cattggagat 540
 41 gcgtttcgtt tgggtgcaaaa tggctatgct aaggcaatga tttgcgggtg cacggaagcg 600
 43 gccattaccc cgctgagcta tgcaggtttt gcttcggccc gggctttatc tttccgcaat 660
 45 gatgatcccc tccatgccag tcgtcccttc gataaggacc gggatgggtt tgtgatgggg 720
 47 gaaggatcgg gcattttgat cctagaagaa ttggaatccg ccttgggccc gggagcaaaa 780
 49 atttatgggg aaatggtggg ctatgccatg acctgtgatg cctatcacat taccgcccc 840
 51 gtgccggatg gtcggggagc caccaggcg atcgctggg ccttaaaaga cagcggattg 900
 53 aaaccggaaa tggtcagtta catcaatgcc catggtacca gcaccctgc taacgatgtg 960
 55 acggaacccc gtgccattaa acaggcgttg ggaaatcatg cctacaatat tgcggttagt 1020
 57 tctactaagt ctatgaccgg tcaactgttg ggcggctccg gaggtatcga agcgggtggc 1080
 59 accgtaatgg cgatcgccga agataaggta cccccacca ttaatttgga gaaccgcgac 1140
 61 cctgagtgtg atttgatta tgtgccgggg cagagtcggg ctttaaatag ggatgtagcc 1200
 63 ctatccaact cctttggttt tgggtggccat aacgtcacct tagctttcaa aaaatatcaa 1260
 65 tagaagcttg gatcc 1275
 68 <210> SEQ ID NO: 2
 69 <211> LENGTH: 416
 70 <212> TYPE: PRT
 71 <213> ORGANISM: Synechocystis sp.
 73 <400> SEQUENCE: 2
 75 Met Ala Asn Leu Glu Lys Lys Arg Val Val Val Thr Gly Leu Gly Ala
 76 1 5 10 15
 78 Ile Thr Pro Ile Gly Asn Thr Leu Gln Asp Tyr Trp Gln Gly Leu Met
 79 20 25 30
 81 Glu Gly Arg Asn Gly Ile Gly Pro Ile Thr Arg Phe Asp Ala Ser Asp

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82          35          40          45
84 Gln Ala Cys Arg Phe Gly Gly Glu Val Lys Asp Phe Asp Ala Thr Gln
85          50          55          60
87 Phe Leu Asp Arg Lys Glu Ala Lys Arg Met Asp Arg Phe Cys His Phe
88 65          70          75          80
90 Ala Val Cys Ala Ser Gln Gln Ala Ile Asn Asp Ala Lys Leu Val Ile
91          85          90          95
93 Asn Glu Leu Asn Ala Asp Glu Ile Gly Val Leu Ile Gly Thr Gly Ile
94          100          105          110
96 Gly Gly Leu Lys Val Leu Glu Asp Gln Gln Thr Ile Leu Leu Asp Lys
97          115          120          125
99 Gly Pro Ser Arg Cys Ser Pro Phe Met Ile Pro Met Met Ile Ala Asn
100          130          135          140
102 Met Ala Ser Gly Leu Thr Ala Ile Asn Leu Gly Ala Lys Gly Pro Asn
103 145          150          155          160
105 Asn Cys Thr Val Thr Ala Cys Ala Ala Gly Ser Asn Ala Ile Gly Asp
106          165          170          175
108 Ala Phe Arg Leu Val Gln Asn Gly Tyr Ala Lys Ala Met Ile Cys Gly
109          180          185          190
111 Gly Thr Glu Ala Ala Ile Thr Pro Leu Ser Tyr Ala Gly Phe Ala Ser
112          195          200          205
114 Ala Arg Ala Leu Ser Phe Arg Asn Asp Asp Pro Leu His Ala Ser Arg
115          210          215          220
117 Pro Phe Asp Lys Asp Arg Asp Gly Phe Val Met Gly Glu Gly Ser Gly
118 225          230          235          240
120 Ile Leu Ile Leu Glu Leu Glu Ser Ala Leu Ala Arg Gly Ala Lys
121          245          250          255
123 Ile Tyr Gly Glu Met Val Gly Tyr Ala Met Thr Cys Asp Ala Tyr His
124          260          265          270
126 Ile Thr Ala Pro Val Pro Asp Gly Arg Gly Ala Thr Arg Ala Ile Ala
127          275          280          285
129 Trp Ala Leu Lys Asp Ser Gly Leu Lys Pro Glu Met Val Ser Tyr Ile
130          290          295          300
132 Asn Ala His Gly Thr Ser Thr Pro Ala Asn Asp Val Thr Glu Thr Arg
133 305          310          315          320
135 Ala Ile Lys Gln Ala Leu Gly Asn His Ala Tyr Asn Ile Ala Val Ser
136          325          330          335
138 Ser Thr Lys Ser Met Thr Gly His Leu Leu Gly Gly Ser Gly Gly Ile
139          340          345          350
141 Glu Ala Val Ala Thr Val Met Ala Ile Ala Glu Asp Lys Val Pro Pro
142          355          360          365
144 Thr Ile Asn Leu Glu Asn Pro Asp Pro Glu Cys Asp Leu Asp Tyr Val
145          370          375          380
147 Pro Gly Gln Ser Arg Ala Leu Ile Val Asp Val Ala Leu Ser Asn Ser
148 385          390          395          400
150 Phe Gly Phe Gly Gly His Asn Val Thr Leu Ala Phe Lys Lys Tyr Gln
151          405          410          415
153 <210> SEQ ID NO: 3
154 <211> LENGTH: 45

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155 <212> TYPE: DNA
156 <213> ORGANISM: Synechocystis sp.
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163 <211> LENGTH: 38
164 <212> TYPE: DNA
165 <213> ORGANISM: Synechocystis sp.
167 <400> SEQUENCE: 4
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172 <211> LENGTH: 33
173 <212> TYPE: DNA
174 <213> ORGANISM: Cuphea hookeriana
176 <400> SEQUENCE: 5
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180 <210> SEQ ID NO: 6
181 <211> LENGTH: 30
182 <212> TYPE: DNA
183 <213> ORGANISM: Cuphea hookeriana
185 <400> SEQUENCE: 6
186 gacagatctt gtggagactt cctgtgcagg 30

VERIFICATION SUMMARY

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date